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| | • | | | HAPIDENTIAL LIGENCE AGENCY | REPORT NO. | | |
| 35 | | | information report | | CD NO | | |
| INTELLOFAX | COUNTRY | | . USSh (Ukrainian SSh) | | DATE DISTR. | 20 May 1952 | |
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| - | | | Lisîchansk | | | ·- | |
| | PLAC | E JIRED | 25X1C : | Lected UU | NO. OF ENCLS. | 1 | |
| | DATE | OF | | OT CIRCULATE | SUPPLEMENT TO REPORT NO. | 25X1X | |
| Г | INFO | • | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | 1. The coal seams and the Podzemgaz coal gasification installation were near the | | | | | | |
| | northwestern outskirts of Lisichansk (48°55'N/38°25'E), southwest of the highway to Proletarsk (48°57'N/38°23'E). The enterprise was called Podzengaz (undergroungas). The construction of the installation started at the beginning of World War The installations were rebuilt after the war and resumed operation in May 1948. installation has been functioning properly since November 1948, although there was technical difficulties at first. Preparations for an expansion of the plan were made late in 1949. * 2. The plant was surrounded by a wall and covered an area of about 1.5 sq km. The nearby coal seams were opened underground and were kept separate from each other Combustion was started by electric ignition and was maintained by supplying oxymeter mine in operation had its own pumping installation which pumped the required oxygen to the various seams. The gases were conducted to the plant where the armonia, tar, naphthalene, and benzel were removed. The purified gas was carried through a pipe line, about 80 cm in diameter, to the Don Soda plant in Verkhney (48°53'N/38°28'E) located 6 km to the southeast. The pipe line was about 3 meteraboveground. | | | | | underground Torld War II. Hay 1948. The agh there were the plant km. The each other. blying oxygen. the required ere the was carried a Verkhneye | |
| 25) | X1A | | Shipments of the by-products, comprising ammonia, tar, naphthalene and benzol, left by rail. Unauthorized entrance to the plant, which was surrounded by a 2.5 meter-high wall, was prohibited. Authorized personnel were provided with special identification cards, which were renewed every three months and stamped every month. Unauthorized personnel were not allowed near the mines operated by the gasification plant. *** | | | | |
| 25) 25) | Comment. For location sketch of the Podzemgaz plant, see Annex. This sketch of the Podzemgaz plant, see Annex. This sketch of the Podzemgaz plant, see Annex. This sketch information from source. Comment. According to available information, the underground coal gasification plant near Lisichansk was tentatively put into operation during World War II. A time the plant was equipped with a number of large containers for the products obtained by the gasification process. The hard coal of the Lisichansk deposits sulphur content ranging from 2.5 to 7.5 percent. The sulphur does not occur as organic part of the coal, but chiefly in pyrite form. By burning the coal undorground, the sulphur occur as sulphur dioxide (SC2) or sulphuric acid anhydric (SO3) and must also be separated in the plant. As source does not mention CLASSIFICATION CONFIDERATIAL Decument No. CLASSIFICATION CONFIDERATIAL Decument No. CLASSIFICATION CONFIDERATIAL Decument No. CLASSIFICATION CONFIDERATIAL CLASSIFICATION CLASSIFICATION CLASSIFICATION | | | | | al gasification War II. At that products deposits has a occur as an coal undor- d anhydride tion | |
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| ~ 2 ~ | |
| probable that sulphuric gases are converted | into liquid |

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elementary sulphur it is probable that sulphuric gases are converted into liquid acid. The entire production of the Podzemgaz plant is processed by the chemical plants in and around Lisichansk.

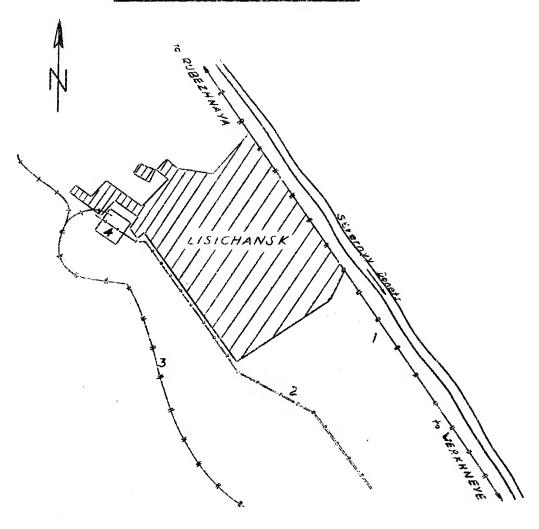
Comment. The city mentioned in the legend of the location sketch of the Fodzemgaz Plant as Imeni L.L. Kaganovicha may possibly be Popasnaya (48-36N, 38-20E).

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Attachment 25X1A

Location Sketch of the Podzemgaz Plant



Scale: 1: 50 000

Legend:

- 1. Kupyansk (49°42'N/37°38'E) Lisichansk Imeni L.M.Kaganovicha (48°38'N/38°23'E) double-track railroad line.
- 2. Gas pipe line from the Podzemgaz plant to the Don Soda plant
- 3. Industrial railroad line. Double-track line in some sections.
- 4. Podzemgaz Coal Gasification plant.